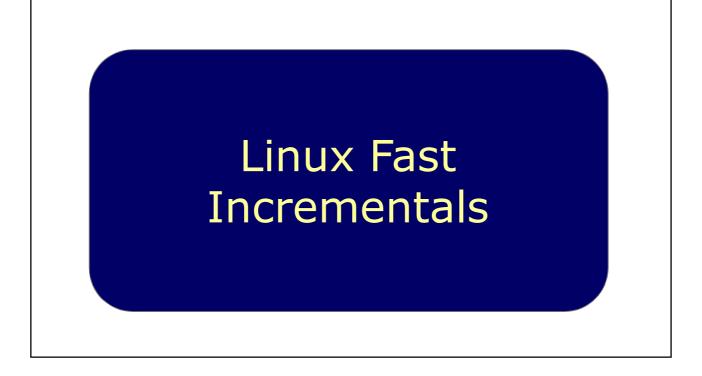
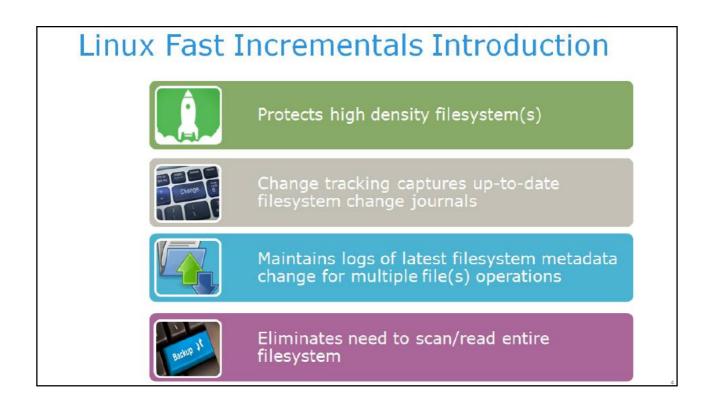
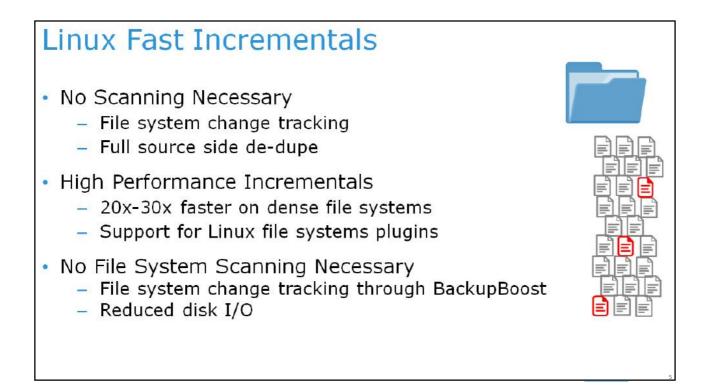


# Agenda

- Linux Fast Incrementas
- VMware performance
- HyperV Fast Incrementals
- OpenStack
- Data Domain enhancements
- Improvements in database / application modules
- Tape out / ADMe
- New hardware

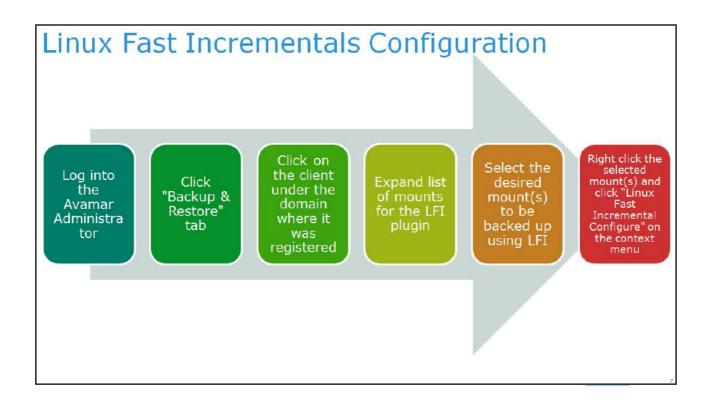


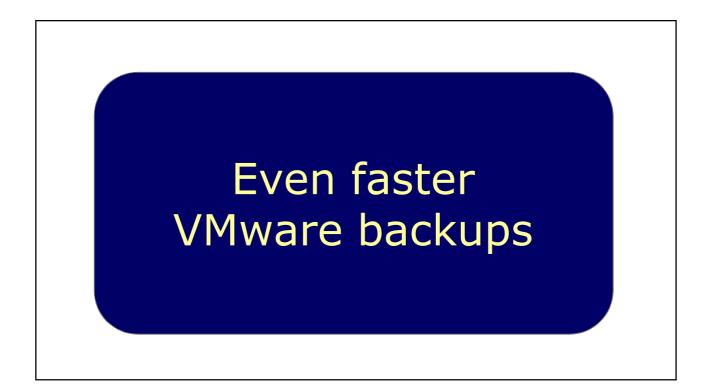


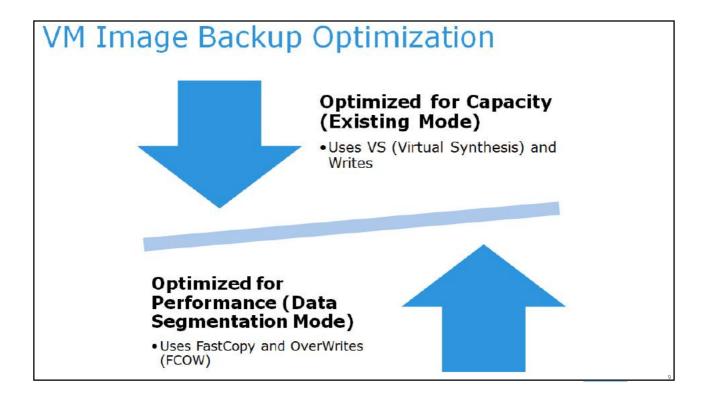


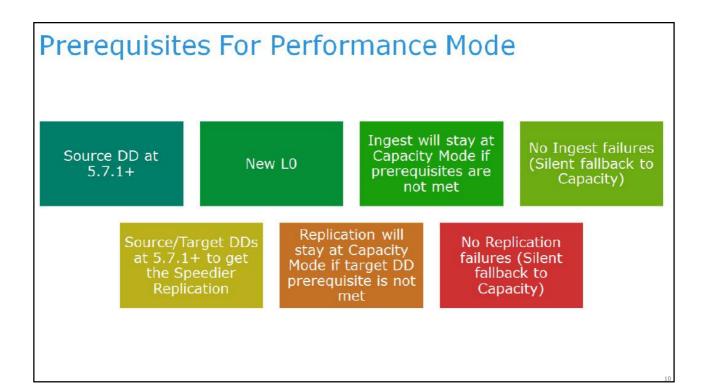
# WHY FAST INCREMENTALS

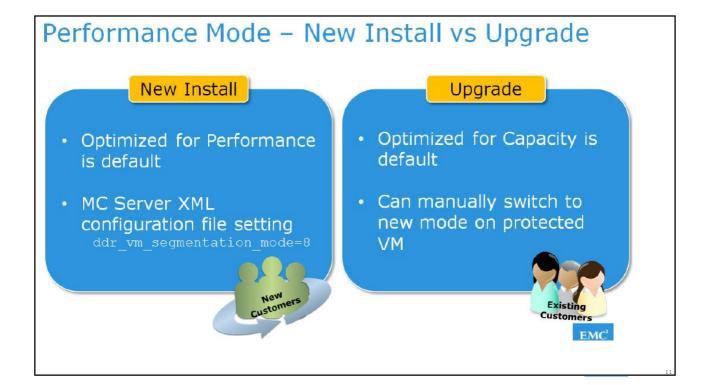
- Full backup
- Possibility to restore single file
- Possibility to search for files in Avamar
- Inclusions / exclusions

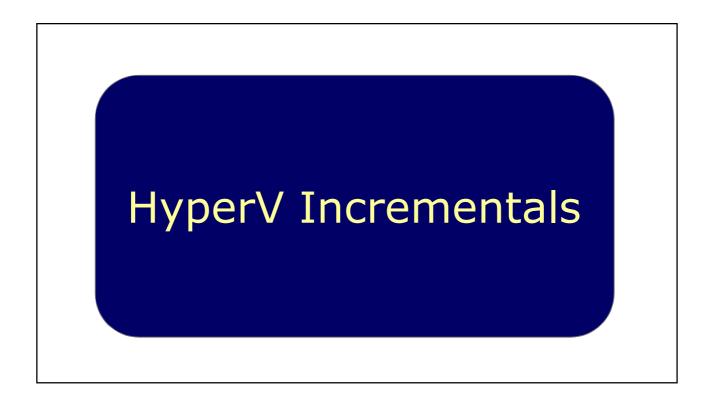


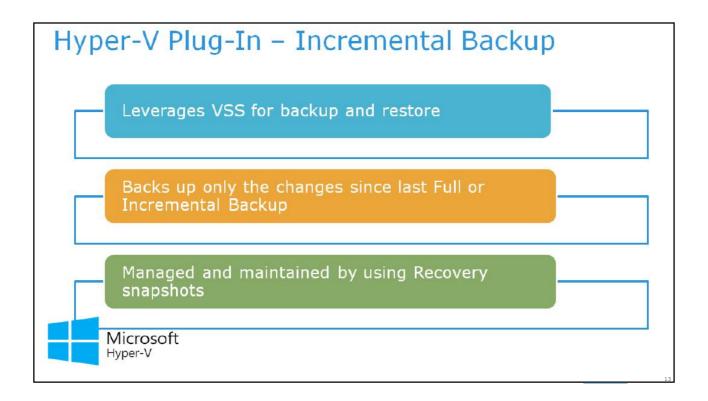




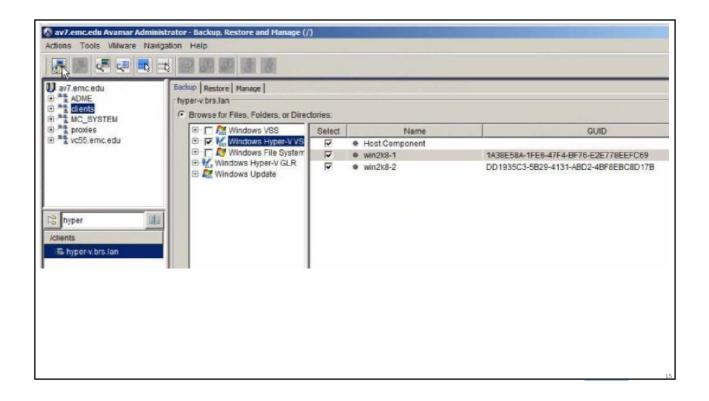








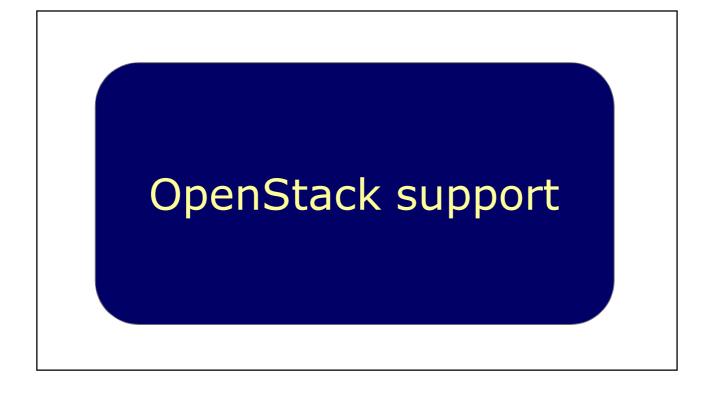
Нур	er-V Plug-in – Sup	ported Pla	atforms
	Operating System	Supported	Unsupported
	Windows Server 2012	$\checkmark$	
	Windows Server 2012 R2	$\checkmark$	
	Windows Server 2008 R2 and earlier		×
	pported platforms includes Windows Se ease, the support for Windows Server 2		

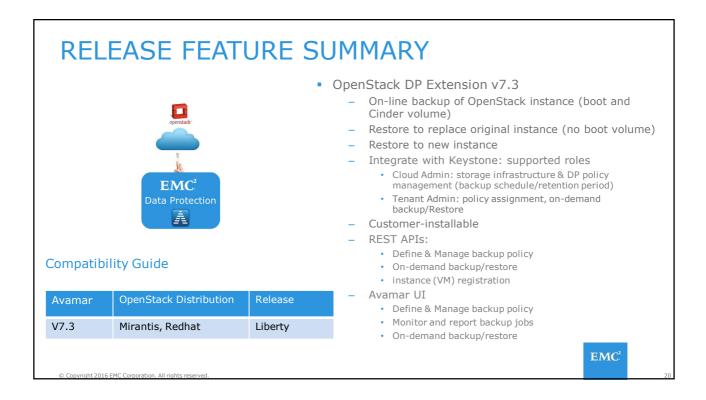


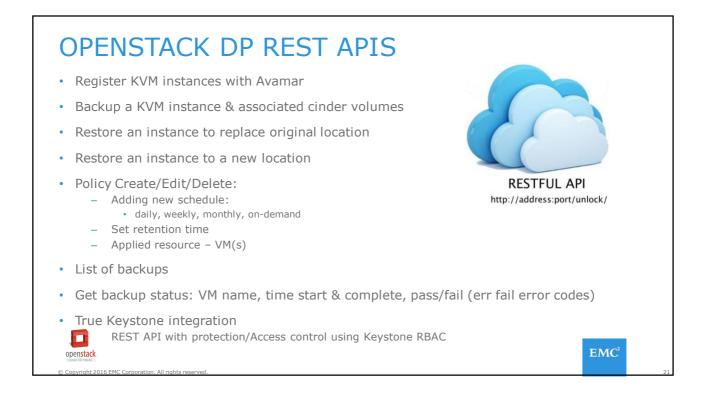
Backup from Client: hyper-v.brs.lan Backup to Server: av7.emc.edu Items Marked for Backup Plug-in Target Windows Hyper-V VSS All Hyper-V Data Retention Policy Settings © Retention period 60 days © End date Mon 2016-05-23 © No end date Avamar encryption method High More Opti s
Plug-in     Target       Windows Hyper-V VSS     All Hyper-V Data         Retention Policy Settings       © Retention period     60       days        C End date     Mon 2016-05-23       © No end date
Windows Hyper-V VSS     All Hyper-V Data       Retention Policy Settings       © Retention period       60       days       © End date       Mon 2016-05-23       © No end date
Retention Policy Settings            ি Retention period         60         days             C End date         Mon 2016-05-23             C No end date

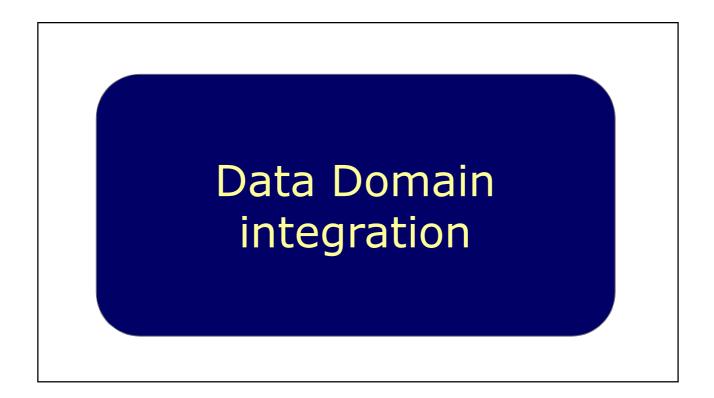
Backup Command Line Options	
Select Plug-In Type:	
Windows Hyper-V VSS	
Backup level Incremental backup  Promote backup Full backup Store backup on Data Domality System ddve.emc.e	
Multi-Streaming	
Enable multi-streaming     Maximum number of streams     Z     Group by Virtual machine	
Encryption method to Data Domain system Default	
Show Advanced Options More	
OK Cancel Help	

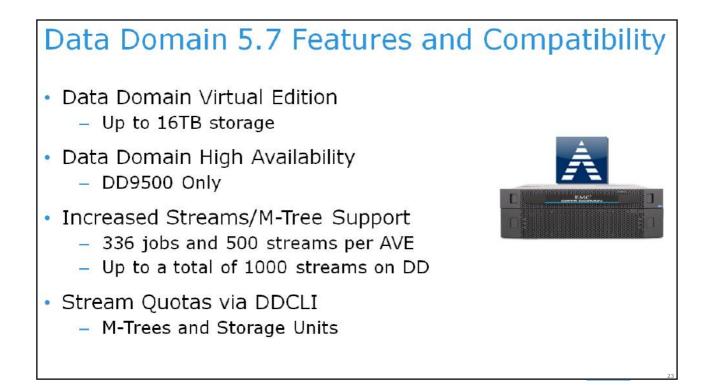
tions Tools VN	fware Naviga	ation Help					
a 📭 🗮							2
divity Monitor Activ	/ity Summary A	Activity Report   Replicat	ion Report				
tatus Type	Source	Group Plug-in			Container DD		
ompleted All Typ	es All Source	es All Groups Window	vs Hyper-V VSS	All Clients All Domains	All Containers All Syste	ms	
							Change Filt
				Session			
tatus	Error Code	Start Time (E	Elapsed	End Time (EDT)	Туре	Server	Progress Bytes
Completed		2016-03-24 16:13	00h:02m:07s	2016-03-24 16:15	On-Demand Backup	DD - ddve.emc.edu	< 1MB
Completed		2016-03-24 16:00	00h:09m:31s	@ 2016-03-24 16:10	On-Demand Backup	DD - ddve.emc.edu	13.8 GB





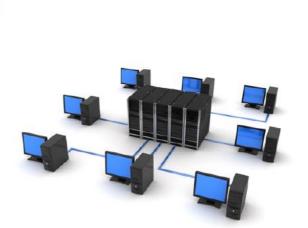


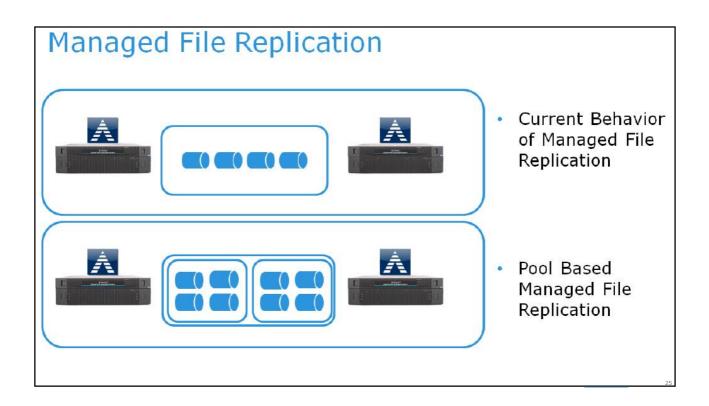


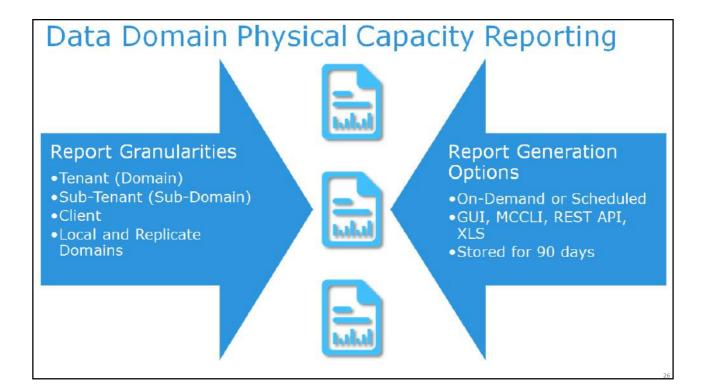


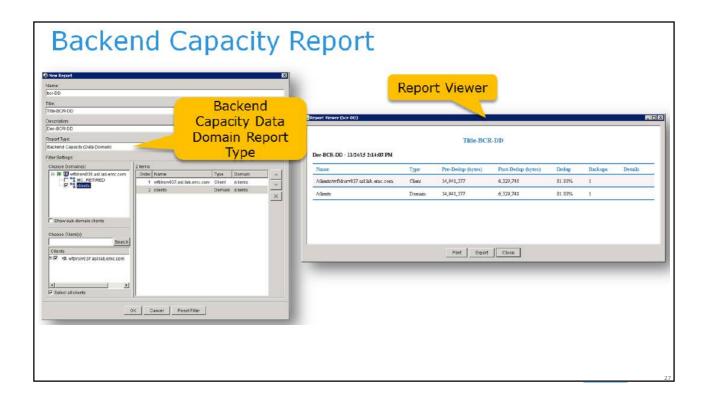
# **Pool Based Replication**

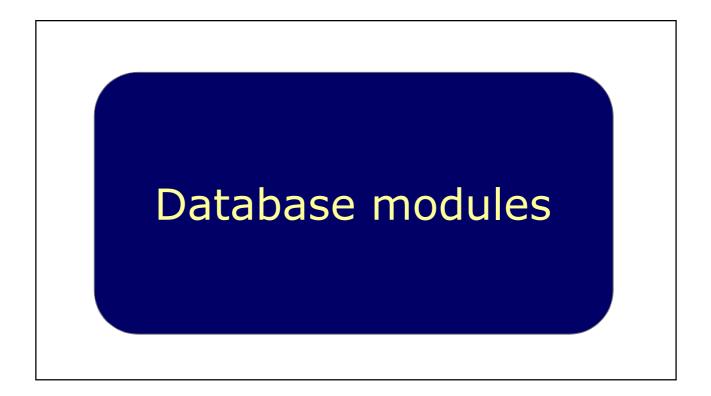
- Group Prioritization
  - Oldest to Newest (default)
  - Newest to Oldest
  - Smallest to Largest
  - Largest to Smallest
  - Manual by Domain Path
- Group Parallelization
  - Better network utilization
  - Compatible with multi-stream and virtual synthetic replication

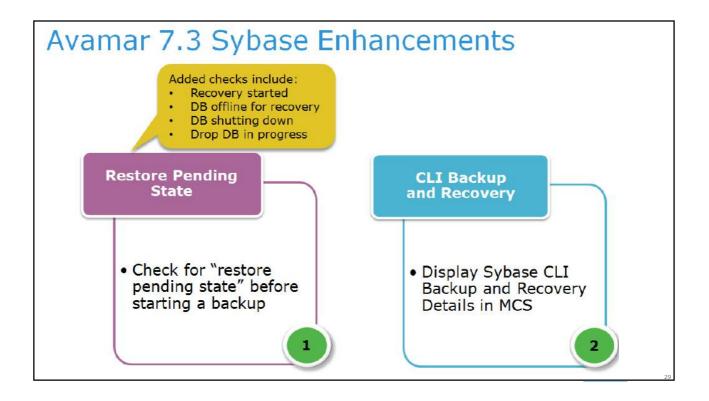


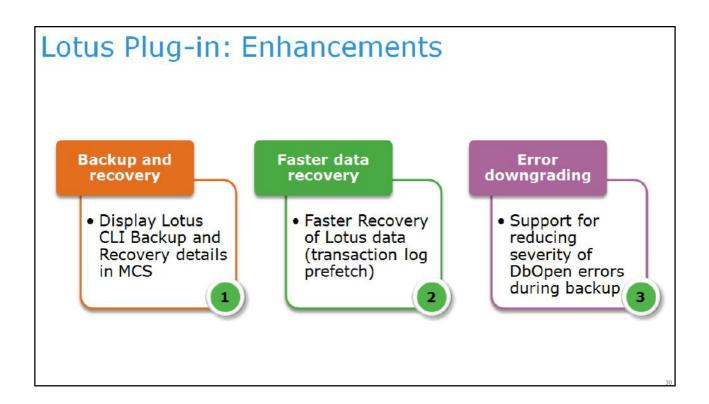


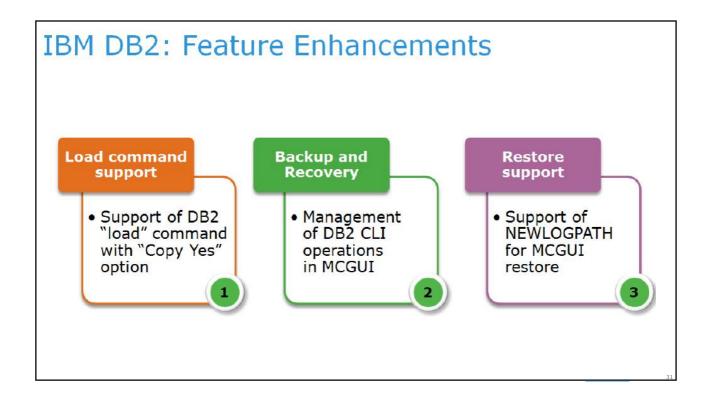


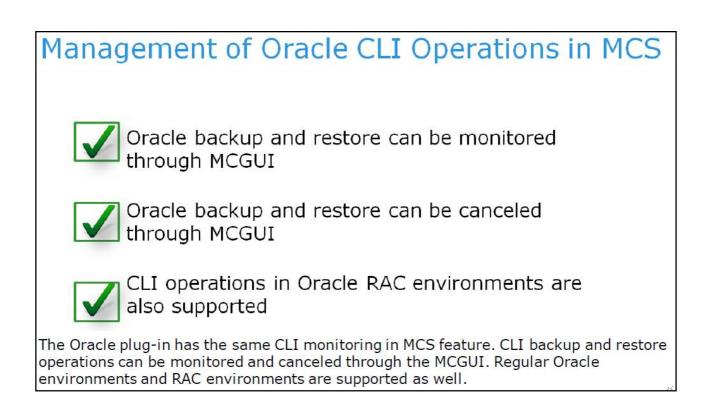


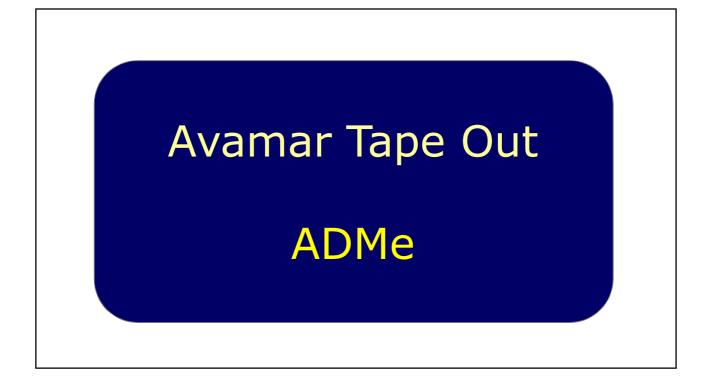


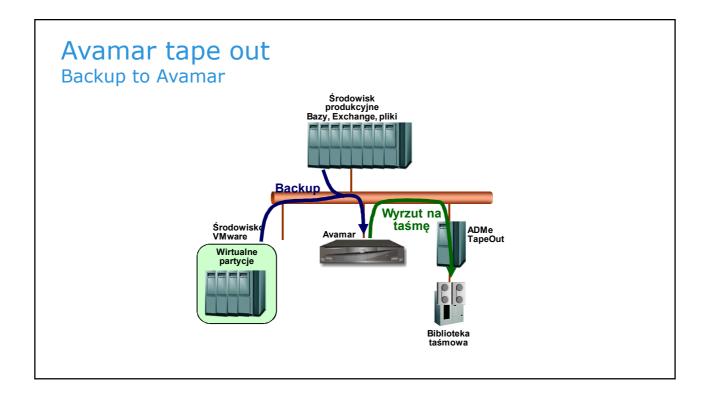


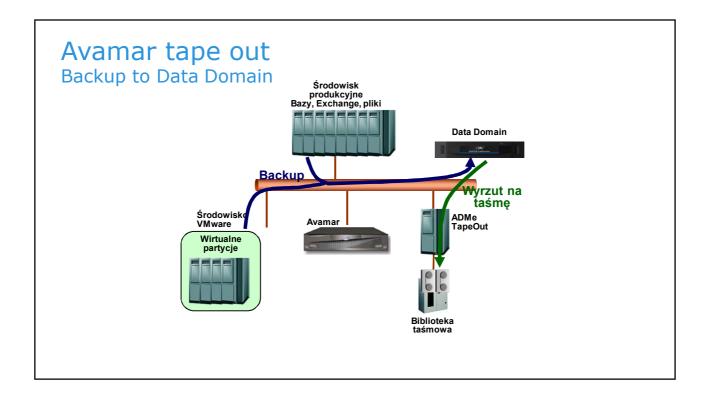












https://www.emc.edu:sess togin   Image: bittps://www.emc.edu:sess togin        Image: bittps://www.emc.edu:sess togin	ADMe ×		
EMC Avamar ® ADME UI © Username: MCUser Password: •••••• Authorized Users Only	https://av7.emc.edu:8888 =login	C	Q, Search
Login		EMC Avama ADME UI ©	EMC <sup>2</sup> where information lives* Ar ®
2016 EMC Corporation. All Rights Reserved		2018	and the second sec

hre Export Server Hostname Export Method OS type Staging Server Mail Address Error Mail Address			nvconfig&sessionid=a255fd38-		C Q Search	☆自	0 + 4 0
hre Export Server Hostname Export Method OS type Staging Server Mail Address Error Mail Address							(
						$\oplus \Theta$	
mwwindows.emc.edu networker Windows /ADME/nwwindows.emc.edu	Expo	irt Server Hostname	Export Method	OS type	Staging Server	Mail Address	Error Mail Address
	nwwi	indows.emc.edu	networker	Windows	/ADME/nwwindows.emc.edu	L	

https://av7.emc.	edu:8888/#clientconfig8ses	sionid=a25	55fd38-267f-46	b4-bc5e-1b	de: C	2 Q s	earch			合自	0 1	ŀ #	9
	ADMe Web UI © ant Config Job-Policy	_	) 1.0.40 Audit										
Client Groups	Θ									$\oplus$ $\in$	) 🔞	5	50
ADMEFul	Group Name	Domain	Client	LabeV Fiter	Retenti Filter	File-Inc	File-Ex	Staging Path	Staging Server OS	Staging Path Suffix	Monthly Tape Policy	Yearly Tape Policy	Server Tape Policy
	ADMEFull	/dients	dc.emc.edu	n/a	n/a	n/a	n/a	F:/ADM	WINDO	n/a	ADMEFul	n/a	n/a
	ADMEFul	/dients	dc.emc.edu	n/a	n/a	n/a	n/a	F:/ADM	WINDO	. n/a	ADMEFul	n/a	n/a

Create Client Group	1	
Group Name:	Group Name	
Label Name Filter:	n/a	dients dc.emc.edu
Retention Tag Value:	n/a 👻	Growies
Exclude Files:	n/a	D 💋 vc55.emc.edu
Include Files:	n/a	
Staging Path:	F:/ADME	
Staging Server OS Type:	WINDOWS	
Destination Path Suffix:	n/a	
Monthly Tape Policy:	n/a	
Yearly Tape Policy:	n/a	

Job-Dashbo	ard Job-Activit	y Job-Policies								
						Œ	)=+ (-)		102	?
Job Type	Job Policy Name	Assigned Batch Job	Client Group Name	Schedule Status	Start Time	Start Date	Start Month	Start Day	Plugin-In Type	Sta
STANDARD	myADME lob	n/a	ADMEFull	NOT-ENABLED	0:0	*	*	*	File-System	/AD
	Sche	dd <sup>(m)</sup> Disable dule-Remove dule-Modify Job								

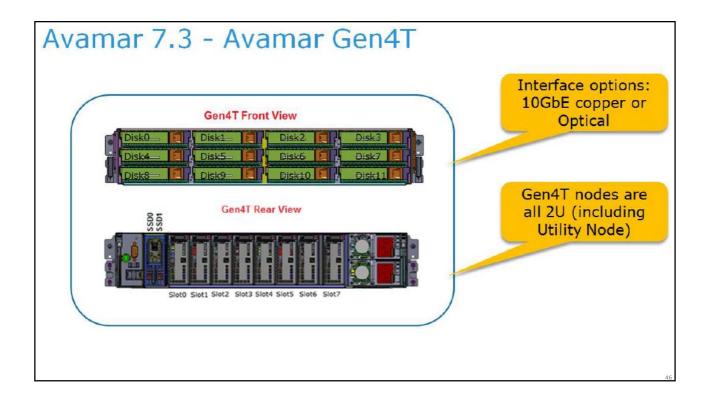
Environmen	nt Client C	nfig Job-Polic	y Mgr. Audit	-						0
Job-Dashboa	ard Job-Activity	Job-Policies								
						$\oplus$	) =+ 🖂	Ø E	50	?
lob Type	Job Policy Name	Assigned Batch Job	Client Group Name	Schedule Status	Start Time	Start Date	Start Month	Start Day	Plugin-In Type	Stag
TANDARD	myADME Joh	n/a	ADMEFul	NOT-ENABLED	0:0			*	File-System	/AD
	Sta	rt Job								

ADMe		× +									
http     htp     http     http	ps://av7. <b>emc.edu</b> :88	188/#batchmanager	8sessionid=a255fd38-267f-	46b4-bc5e-1b C	Q, Search	l	1		+ 1	9	=
EMC A			(BETA) 1.0.40					Info Sending Comm admbatch-my:			
	ard Job-Activity	Job-Policies									
						$\oplus$	) =+ (	Info	10	0.0	
Job Type	Job Policy Name	Assigned Batch Job	Client Group Name	Schedule Status	Start Time	Start Date	Start Mont	Command Res batch policy n myADMEJob	ame [admbate		STA .
STANDARD	myADMEJob	n/a	ADMEFull		0:0			myADME300	Cengj Filo Synter		140
			L.	Loading							
			.0								

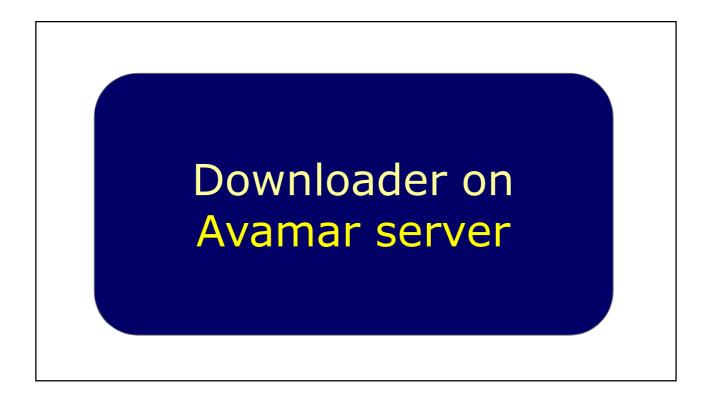
EMC Avan	Client Config	Job-Policy	Mgr. Audit						0
Job-Dashboard	Job-Activity	Job-Policies							
								M 0 3	20
Job Name	Assigned Batch Job	Last Status	Last Error	Group Name	Start Date	End Date	Elapsed Run Time	Migration Size KB's	Client Count
myADMEJob	n/a	RUNNING	None	ADMEFull	03/17/2016 11:08	03/17/2016 00:00	00:01	0	C
			R						

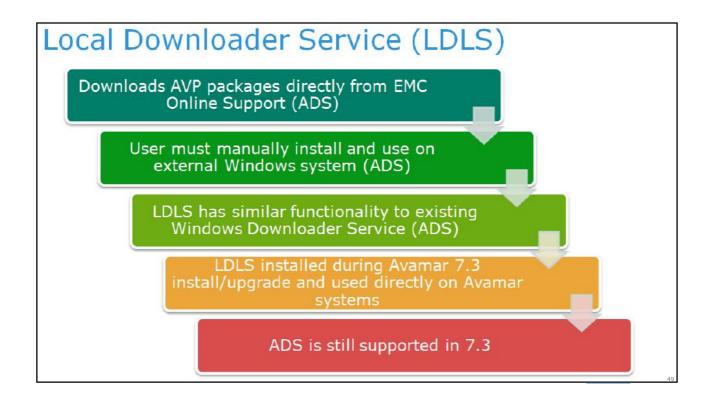
Environment Job-Dashboard Jo	Client Config	Job-Policy	Mgr. Audit						
Job-Dashboard Jo	A								0
	ob-Activity	Job-Policies							
								$\square \bigcirc$	50
Job Name As Jo	ssigned Batch bb	Last Status	Last Error	Group Name	Start Date	End Date	Elapsed Run Time	Migration Size KB's	Client Count
nyADMEJob n/a	/a	SUCCEEDED	None	ADMEFull	03/17/2016 11:08	03/17/2016 11:10	00:02	2	

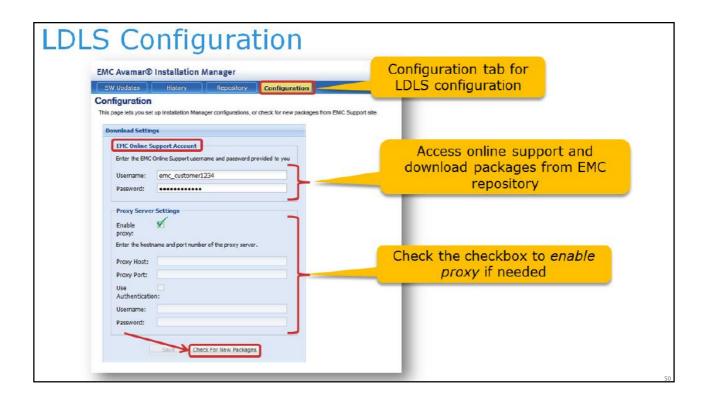




	ADS Gen4T					
Processor	1 x E5-2609 v3 (15M Cache, 1.90 GHz)					
Memory	16GB – 48GB depending on node type					
Storage Node Capacity	2TB - 7.8TB depending on node type					
Network Connectivity	Customer options: • 10GBASE-T • 10GbE Twinax/Optical (w/ SFP+)					
This table provides general specifications on the Avamar Gen4T hardware. It has a single processor that utilizes 16 GB and 48 GB of memory depending on the model or storage node type. The Storage capacity is from 2 to 7.8 TB, depending on the node type. Network connectivity includes 10GBASE-T copper, or 10G optical SFP (or Twinax).						









# UPGRADE DO 7.3

 Prośba o wstrzymanie z upgrade'm się do ogłoszenia Target Code



# Warsztaty Nowości w Avamar 7.3

- Rejestracja / szczegóły:
  - <u>https://www.linkedin.com/pulse/dowiedz-si%C4%99-co-nowego-w-avamar-73-olkowski-daniel?trk=hp-feed-article-title-publish</u>
- Planowane terminy:
  - 27 września
  - 4 października



- Rejestracja
  - <u>https://www.linkedin.com/pulse/kalendarz-2016-warsztaty-z-administracji-data-domain-avamar-daniel?trk=mp-reader-card</u>
- Data Domain
  - 20 września
- Avamar
  - 23 października
- NetWorker
  - 22 listopada
- vSphere Data Protection
  - 6 grudnia

